GILA RIVER BASIN

09512800 AGUA FRIA RIVER NEAR ROCK SPRINGS, AZ

LOCATION.—Lat 34° 00'56", long 112° 10'02", in NW_{1/4}NW_{1/4} sec. 28, T.8 N., R.2 E., Yavapai County, Hydrologic Unit 15070102, on right bank 2.5 mi southwest of Rock Springs and 10 mi upstream from Lake Pleasant.

DRAINAGE AREA.--1,111 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—Jan. 1970 to current year (monthly discharge only, Oct.1973 to Sept. 1974). Low-flow records not equivalent prior to Oct. 1, 1974, due to spring flow in streambed between sites in use.

REVISED RECORDS.--WDR AZ-89-1: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 1,800 ft above sea level, from topographic map. Prior to Oct. 1, 1974, at site 600 ft upstream at datum 10.00 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,500 ft³/s Feb. 19, 1980, gage height, 21.08 ft recorded, 28.15 ft from floodmark, from rating curve extended above 21,000 ft³/s on basis of slope-area measurement at gage height 27.2 ft; no flow at times each year prior to Oct. 1974; since Oct. 1974, no flow May 27 to July 12, 1977, and for many days in 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and (or) maximum (*), from rating curve extended on basis of slope-area measurement:

Date	Time	Discharge(ft ³ /s)	Gage height (ft)
Sept. 8	0530	3220	10.12
Sept. 9	0415	*7420	*13.16
Sept. 11	0600	3350	10.23

Minimum daily discharge, no flow for many days.

			DISCHAR	GE, CUBIC	FEET PER		WATER YEAR Y MEAN VAL		2001 TO	SEPTEMBER	2002	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	0.00 0.00 0.00				0.13 0.10 0.11 0.10 0.09	0.10 0.06 0.05 0.06 0.06	0.30 0.25 0.22 0.17 0.14	0.00 0.00 0.00 0.00			0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
						0.05	0.23 0.25 0.23 0.21 0.22			0.00 0.00 0.00 0.00 0.00		
		0.00 0.00 0.00 0.00 0.00				0.09	0.20 0.19 0.13 0.09 0.06			0.00 0.00 0.00 0.00 0.00		
16 17 18 19 20		0.00 0.00 0.00 0.00 0.00				0.12 0.14 0.14 0.11 0.11	0.07 0.07 0.04 0.03 0.03			0.00 0.00 0.00 0.00 0.00		
			0.00 0.00 0.00 0.00 0.00			0.10 0.11 0.14 0.22 0.22	0.03 0.02 0.00 0.00 0.00			0.00 0.00 0.00 0.00 0.00		
26 27 28 29 30 31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	e0.00 e0.00 0.00 0.00 0.00	e0.17 e0.19 0.21 0.18 0.15 0.14	0.11 0.09 0.12 	0.23 0.21 0.23 0.29 0.29 0.27		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.04 0.08 0.11 0.00 0.00
TOTAL MEAN MAX MIN AC-FT CFSM IN.	0.00 0.000 0.00 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00 0.00	6.19 0.200 0.36 0.00 12 0.00 0.00	2.74 0.098 0.13 0.07 5.4 0.00 0.00	4.16 0.134 0.29 0.05 8.3 0.00 0.00	3.18 0.106 0.30 0.00 6.3 0.00	0.00 0.000 0.00 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00 0.00	0.00 0.000 0.00 0.00 0.00 0.00	2997.65 99.92 898 0.00 5950 0.09 0.10
STATIST	rics of M	ONTHLY MEA	N DATA FO				BY WATER					
MEAN MAX (WY) MIN (WY)	23.35 381 1973 0.000 2002	19.89 176 1979 0.000 2002	72.52 943 1979 0.000 2002	185.9 3301 1993 0.20 2002	311.3 3320 1980 0.098 2002	256.7 1967 1978 0.13 2002	54.36 338 1973 0.000 1972	11.40 70.7 1979 0.000 1972	4.335 46.1 1979 0.000 1971	10.60 51.4 1999 0.000 1971	27.92 164 1988 0.000 2002	33.54 360 1970 0.000 2001
SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1970 - 2002												
ANNUAL ANNUAL HIGHES LOWEST HIGHES LOWEST ANNUAL ANNUAL ANNUAL ANNUAL 10 PER 90 PER	TOTAL MEAN T ANNUAL I ANNUAL M T DAILY ME SEVEN-DA RUNOFF (RUNOFF	MEAN EAN EAN AN Y MINIMUM AC-FT) CFSM) INCHES) EDS EDS EDS		7214.27 19.77 1020 0.00 0.00 14310 0.01 0.24 48 0.01 0.00	Mar 8 Jun 27 Jun 27		3013.92 8.25 898 0.00 0.00 5980 0.00 0.10 0.22 0.00	Sep 11 Oct 1 Oct 1		83.79 499 2.58 32700 0.00 0.00 60700 0.07 1.03 101 2.6 0.12	Jan Jun Jun 5	1993 1975 8 1993 2 1970 2 1970

e Estimated